

License and Application Fee:

RECEIVED

The appropriate fee for the Hazardous Waste License is determined using the table below.

APR 20 1981

HAZARDOUS WASTE GENERATOR FEE SCHEDULE

MINN. POLLUTION
CONTROL AGENCY

License Fee			Initial Application Review Fee
Total Volume of Hazardous Wastes First 500 (or portion thereof)	(Gallons/Year) Next 500 (or portion thereof)	Each Addl. 1000 (or portion thereof)	
\$50	\$25	\$10	\$30

For each additional waste add \$20 per license fee and \$20 per application fee.

Example: Total Volume - 2,900 gallons; total number of wastes - 4.
First 1,000 gallons - \$75, next 2,000 gallons - \$20; 3 additional
wastes - \$60. Total license fee - \$155. First waste initial application -
\$30; 3 additional wastes - \$60. Total initial application review fee -
\$90. Total Fee - \$245.

Facility: Interplastic Corporation

2015 NE Broadway St.

Minneapolis, MN 55413

November 1, 1980
to October 31, 1981

12 month license
7 month credit

Total Volume: 20,000 gals.

\$ 265.00

Total Number of Wastes: 2

\$ 20.00

TOTAL LICENSE FEE

\$ 285 X 5/12 = 119.0

Initial Application Review Fee

\$ ---

TOTAL FEE

\$ 119.00

Initial Payment

\$ ---

AMOUNT OWED

\$ 119.00

Make Checks Payable to: Hennepin County Finance Director

License and Application Fee:

The appropriate fee for the Hazardous Waste License is determined using the table below.

HAZARDOUS WASTE GENERATOR FEE SCHEDULE

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wastes - \$60. Total license fee - \$155. First waste initial application -
\$30; 3 additional wastes - \$60. Total initial application review fee -
\$90. Total Fee - \$245.

Facility: Interplastic Corporation

2015 NE Broadway St.

Minneapolis, MN 55413

June, 1980 to
November 1, 1980

5 month license
7 month credit

Total Volume: 20,000 gals. \$ 265.00

Total Number of Wastes: 2 \$ 20.00

TOTAL LICENSE FEE \$ 285.00

Initial Application Review Fee \$ 50.00

TOTAL FEE \$ 335.00

Initial Payment \$ 335.00

AMOUNT OWED \$ -0-

Make Checks Payable to: Hennepin County Finance Director

Generator License Change List

2821

Date
Disclosure Received 6-17-86
Disclosure Reviewed 9-19-86
Contacts

Generator Name Interplastic Corp.

Address 2015 N.E. Broadway St.

Responsible Person Marvin Weiss

Phone Number 331-6850.

Site Visit
License Issued

License Fee \$ 350.00

*Kelly ...
Copyright 1987 Interplastic Corp.*

Waste
Inventory Number
Type, Constituent

Production/Storage
Volume
Site

Transporter
Site
Reg. No.

Disposer
Site
Reg. No.

<p><u>waste acetone</u></p> <p>1. polyester solids 17.3%</p> <p>2. acetone 75%</p> <p>3. styrene 7.65%</p>	<p><u>prod:</u> 16,000 gal/yr.</p> <p><u>store:</u> 55 gal steel barrel in open yard.</p> <p><u>disp:</u> 4 x 10³ /yr - 4,000 gal</p>	<p>Worcum Chemical</p> <p>TR0014</p>	<p>Hydrite Chem Co.</p> <p>2781 <u>Wt.</u></p>
<p><u>waste resin</u></p> <p>1. polyester solids 69.3%</p> <p>2. styrene: 30.7%</p>	<p><u>prod:</u> 4,000 gal/yr.</p> <p><u>store:</u> 55 gal steel barrel in open yard.</p> <p><u>disp:</u> 2 x 10³ /yr - 2,000 gal.</p>	<p>Rogers Petroleum</p> <p>TR1979</p>	<p>Worcon</p> <p>CP& site</p> <p>Grandview, ID</p>
<p>waste H₂O discharged to sewer.</p>	<p>non - hwy of lab report attached</p>		
<p>Pb</p>			
<p>Asbestos</p>			



MARVIN R. WEISS



INTERPLASTIC CORPORATION
A SUBSIDIARY OF PHILLIPS PETROLEUM COMPANY

ROMAN KRAMER
ENGINEER
COMMERCIAL RESINS DIVISION

PLANT MANAGER
COMMERCIAL RESINS DIVISION

2015 N. E. BROADWAY
MINNEAPOLIS, MINN. 55413

2015 N.E. Broadway
Minneapolis, MN 55413

(612) 331-6850

Waste
Inventory Number
Type, Constituent

Transporter
Site
Reg. No.

Disposer
Site
Reg. No.

[illegible]

Handling
Procedure

2.172 mg/gal/yr.

Many polystyrene resins -
made to order.

holding tanks - PCA.

12 tanks over 5,000 gal (raw materials)

Disposal

Solvents

only acetone - no other.

pH - of cooling H₂O - 6.7 - 7.7.

Asbestos - used as a filler in various
resins.

waste bags → landfill. (will write E.N.)

Storage
Procedures

Storage
Volume

no filter.

no photo lab.

Shipment
Volume

Production
Volume

ste

Memo of Site Visit to Interplastic Corp.
10/16/80 - 9 AM. Contact Marvin Weiss.

Met w/ Mr Weiss & C Roman Knoman, & discussed the following:

- ① They manufacture polyester resins.
(special, made to order)
- ② Have 12 - > 5,000 gal. to store raw materials.
- ③ Solvents used - only acetone - no other
- ④ pH of cooling H₂O checked out to be between 6.7 & 7.7.
- ⑤ Asbestos is used as a filler in various resins. Waste bags go to landfill. They will write C. Monte - leave for permission to dispose in this way.
- ⑥ They use no filter & have no photo lab.

A tour of premises followed.
Returned - 10:45 AM

HAZARDOUS WASTE GENERATOR
LICENSE APPLICATION INFORMATIONA. Generator Information

1. Company Name: INTERPLASTIC CORPORATION Phone No. 331-6850
Address: 2015 N.E. BROADWAY STREET
MINNEAPOLIS, MN 55413
2. Plant Name/Division: COMMERCIAL RESINS DIVISION Phone No. 331-6850
Address: 2015 N.E. BROADWAY STREET
MINNEAPOLIS, MN 55413
3. Responsible Person: MARVIN WEISS Phone No. 331-6850
Address: 2015 N.E. BROADWAY STREET Business: 331-6850
MINNEAPOLIS, MN Residence or
Emergency: 571-5613

B. Waste Inventory

Process, Activity, Service Department	SIC(s)	Waste Type	Physical State	Check One	
				Non- Haz.	Hazard- ous
1.	2821	WASTE ACETONE	LIQUID		X
2.		WASTE RESIN	VISCOUS LIQUID		X
3.			& SOLIDS		
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					

*(If additional space is needed for this waste inventory, a supplemental waste inventory form may be obtained from the County Solid Waste Officer.)

C. Negative Declaration

If any of the wastes identified in Item B are hazardous, continue with Item D, below.

If none are hazardous this constitutes a negative declaration. Check the box below and skip to Item F.

☐ No hazardous wastes

D. Of the wastes identified in Item B on the reverse side as hazardous, which ones are:

1. Maintained separate (unmixed with any other waste or material) until offered for transport, disposal or other ultimate disposition (list by line number each separate waste type from Table B on the reverse side of this form):

a. WASTE ACETONE d. _____ g. _____ j. _____

b. WASTE RESIN e. _____ h. _____ k. _____

c. _____ f. _____ i. _____ l. _____

2. Mixed with another waste or material before leaving your control (list by line numbers each combination of waste type from Table B on reverse side of this form):

a. _____ d. _____ g. _____ j. _____

b. _____ e. _____ h. _____ k. _____

c. _____ f. _____ i. _____ l. _____

3. Complete and attach a separate Hazardous Waste Management Plan (Green form) for each and every waste identified in Items D.1. and 2. above.

E. License and Application Fees:

1. The appropriate license and application fee must be determined and submitted with the license application and management plan. See fee schedule.

Total number of hazardous wastes being managed: 2 (Equals number of Management Plan(s) submitted).

2. The sum of hazardous waste quantities listed on the Management Plan(s) (Green form) being managed per year: 20,000 gallons.

3. Fees submitted (amount): License \$285.00 Initial Application \$ 50.00
TOTAL \$335.00

F. I certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. Included with this application is 24 attachments.

Maven Weiss

Signature of Applicant

Plant Manager

Title

6/12/80

Date

HAZARDOUS WASTE DISCLOSURE FORM
WASTE MANAGEMENT - HAZARDOUS WASTE

A. Complete the Past Management of Hazardous Waste Form and include all present and past, suspected or known hazardous wastes.

B. Name of generator (from Items A.1. and A.2. of Disclosure Form):

Interplastic Corporation

C. Waste Inventory for Past Management*

Process, Source, Service Dept.	Waste Type	Physical State	Disposal Frequency (days, weeks, months)	Total Amt. Per Year (tens, gallons, yds.)
1. WASTE ACETONE	ACETONE	LIQUID	EVERY 3 MONTHS	16000 GALLON/YR
2. WASTE RESIN	RESIN	VISCOUS LIQUID SOLID	EVERY 6 MONTHS	4000 GALLON/YR
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

*If additional space is needed, complete on a separate sheet of paper, number the attachment and attach to this form.

D. Transporters Used (name and address):

Name	Address	Waste # from Item C. above	Years Used for Transport
ROGERS PETRO-CHEM	RR1 GROVE CITY, MN 56243 55108		3
WORUM CHEMICAL	2130 KASOTA AVE. ST. PAUL		4

E. Disposal site, on-site facility, storage, treatment and/or recovery facility; MPCA permit number, if applicable; method or process of disposal:

Name	Permit # or State & Co.	Waste # from C.	Years Used for Disposal	Method/Process
WES-CON, INC.	EPA SITE		3	LAND FILL
WASTE MANGEMENT OF WISC.	1678		4	LAND FILL
HYDRITE CHEMICAL CO.	WISC.		4	RECOVERY

F. Past Management of Hazardous Waste disclosed above covers the period:
from 1/1/76 to 6/9/80.

G. The above referenced generator (Item B. of this form) has been operating since:

6/12/80
Date

Prepared by: M. Allen Weiss

1. The hazardous waste management plan shall be for a period of twelve (12) months corresponding to the license year. See instructions.
2. Estimated amount of this waste to be produced during the management plan period (Item C.1. above): 16,000 (gallons)
3. Briefly describe how and where this waste will be stored prior to shipment and/or disposal or other ultimate disposition (use additional sheets if necessary):

55 GALLON STEEL BARREL, IN OPEN YARD

4. What is the anticipated frequency of shipment of this waste:
4 per (day, week, month, year) or (specify): _____
5. What is the anticipated quantity of each of the shipments of this waste:
4,000 (gallons, tons, yards) or other specify _____
6. Is this waste to be comingled with any other waste? ☐ Yes ☒ No

If comingling is planned, list the generator and waste with which this waste may be comingled.

Generator Name	Establishment No.	Waste	Waste Code

7. Transporter to be used (name and MPCA registration number):

Name	Registration Number
WORUM CHEMICAL	TR 0014

8. Disposer, treatment, storage, and/or recovery facility, and method or process to be used (name and MPCA or other state permit number):

Name	Permit Number	Method/Process
HYDRITE CHEM CO.	2781	RECLAIM

9. Special procedures and/or instructions. Attach a description of:

- a. Equipment, labels, and procedures for safe handling of this waste; and
- b. Emergency procedures in case of a spill; and
- c. Additional information the generator deems important.

D. I certify that I am familiar with the information contained in this Management Plan and that, to the best of my knowledge and belief, such information is true, complete, and accurate. Included with this Management Plan are _____ attachments.

Maurice Wein
Signature of Applicant

Plant Manager
Title

6/12/80
Date

WASTE ACETONE NOTE #1

THIS ACETONE IS USED FOR CLEANING RESIN FROM TANK TRUCKS AND FOR GENERAL PLANT CLEAN UP OF TOOLS AND EQUIPMENT USED IN THE MANUFACTURING OF POLY-ESTER RESIN. THE STYRENE INCLUDED IN THE RESIN IS USED AS A THINNER (SOLVENT) CONTROL FOR THE VISCOSITY OF THE RESIN.

THEREFORE, THESE ARE THE ONLY TWO HAZARDOUS WASTE COMPONENTS OF CONCERN IN THIS WASTE STREAM.

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EVALUATION DATA SHEET

1. Laboratory Name: SHELL CHEMICAL CO. Phone No.: 713-473-9461

Address ONE SHELL PLAZA P.O. BOX 2463

HOUSTON, TEXAS 77001

A. Report of Laboratory Analysis for (name of generator):

INTERPLASTIC CORPORATION

Sample I.D.: ACETONE, C₃ H₈ O

Date Sampled: SEE MATERIAL SAFETY DATA SHEET

Date Received: _____

B. Parameters Listed in 6MCAR §4.9002 B.1-2 of MPCA Hazardous Waste Rules:

Parameter	Result	Precision	Source of Data

C. Sampling Location: _____

Sampling Procedure: _____

Sample Preservation Techniques: _____

D. Evaluation of Hazardous Properties

ACETONE

Property	Test	Result	Precision	Lab Analysis/Date
1. Toxic	oral LD ₅₀ dermal LD ₅₀ inhalation LC ₅₀ aquatic LC ₅₀			
2. Corrosive	rabbit pH skin damage steel coupon			
3. Irritative	rabbit skin damage			
4. Flammable	flash point			
5. Explosive	---			
6. Oxidative	---			

E. Literature or Experience - if other than laboratory analyses are submitted, provide supporting data.

E. Evaluation Submitted By: S. Kell

Title: _____

Date: _____



INTERPLASTIC CORPORATION

A SUBSIDIARY OF PHILLIPS PETROLEUM COMPANY

COMMERCIAL RESINS DIVISION

MINNEAPOLIS, MINNESOTA 55413
2015 N.E. BROADWAY

HAZARDOUS WASTE HANDLING PROCEDURE AND SAFETY REGULATIONS WASTE ACETONE

USE ORANGE DRUMS FOR WASTE ACETONE. WHEN DRUM IS FILLED
INSTALL BUNGS AND TIGHTEN.

ATTACH HAZARDOUS WASTE LABELS AND FILL IN DATE THAT DRUM
WAS FILLED. ALSO ATTACH FLAMMABLE LABELS.

USE STENCIL FOR HAZARDOUS WASTE ON SIDE AND TOP OF EACH
DRUM. FILL IN DATE WHEN DRUM IS FILLED WITH A MARKING
PENCIL.

DO NOT STACK DRUMS MORE THAN TWO HIGH.

EMERGENCY FIRST AID. EFFECTS OF OVEREXPOSURE FROM ACETONE
(DIZZINESS, ANESTHESIA BY INHALATION "HANGOVER" AND RECOVERY).
REMOVE VICTIM TO FRESH AIR. IF BREATHING HAS STOPPED GIVE
ARTIFICIAL RESPIRATION. EYES: FLUSH EYES WITH A LARGE
VOLUME OF FLOWING WATER (EYE FOUNDATION) FOR A MINIMUM OF
15 MINUTES. SKIN: WASH FROM THE SKIN WITH A LARGE VOLUME
OF FLOWING WATER. REMOVE CONTAMINATED CLOTHING. INGESTION:
HOSPITALIZE AT ONCE. DO NOT GIVE EMETICS.

IN CASE OF SPILL, NOTIFY FOREMAN ON DUTY AND PLANT MANAGER.

FIRE EXTINGUISHERS ARE LOCATED IN SCALE HOUSE AND OUTSIDE OF
PUMP HOUSES. IN CASE OF FIRE, PULL FIRE ALARM SWITCH ON NORTH
END OF TANK FARM WALL.

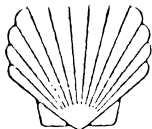
MINNESOTA POLLUTION CONTROL AGENCY, 24 HOUR SPILL NUMBER
296-7373.

EYE WASH AND SHOWER AVAILABLE IN KETTLE ROOM.

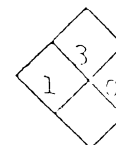
FOR FIRST AID, SEE FOREMAN IMMEDIATELY.

COMPANY DOCTOR PHONE NUMBER 789-3531.

METROPOLITAN MEDICAL CENTER INFORMATION 347-4444.



SHELL CHEMICAL COMPANY
SHELL DEVELOPMENT COMPANY
SHELL PIPE LINE CORPORATION



MATERIAL SAFETY DATA SHEET

Information on this form is furnished solely for the purpose of compliance with the Occupational Safety and Health Act of 1970 and shall not be used for any other purpose. Use or dissemination of all or any part of this information for any other purpose may result in a violation of law or constitute grounds for legal action.

SECTION I	
MANUFACTURER'S NAME Shell Chemical Company	EMERGENCY TELEPHONE NO. 713-473-9461
ADDRESS (Number, Street, City, State, and ZIP Code) One Shell Plaza, P. O. Box 2463, Houston, Texas 77001	
CHEMICAL NAME AND SYNONYMS Acetone/Dimethyl Ketone	TRADE NAME ACETONE
CHEMICAL FAMILY Ketones	FORMULA C_3H_6O

SECTION II HAZARDOUS INGREDIENTS*						
COMPOSITION	%	SPECIES	LD ₅₀		LC ₅₀	
			ORAL	DERMAL	CONCENTRATION	HOURS
PIGMENTS						
CATALYST						
VEHICLE						
SOLVENTS	100	Rat	10.7 gm/kg			
ADDITIVES		Rabbit		>20 ml/kg		
OTHERS		Rat			>16,000 PPM	4

SECTION III PHYSICAL DATA			
BOILING POINT (°F)	134	SPECIFIC GRAVITY (H ₂ O=1)	0.79
VAPOR PRESSURE (mmHg) @ 68°F	180	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	2.0	EVAPORATION RATE (NBAC=1)	5.6
SOLUBILITY IN WATER	100%		
APPEARANCE AND ODOR	Colorless mobile liquid. Mild odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used)	0°F TCC	FLAMMABLE LIMITS	Lel Uel
			2.6 12.8
EXTINGUISHING MEDIA	Dry chemical, alcohol foam, CO ₂		
SPECIAL FIRE FIGHTING PROCEDURES	Handle as very flammable liquid		
UNUSUAL FIRE AND EXPLOSION HAZARDS			

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

1000 PPM

EFFECTS OF OVEREXPOSURE

Dizziness, anesthesia by inhalation "Hangover" and recovery.

EMERGENCY AND FIRST AID PROCEDURES

Remove victim to fresh air. If breathing has stopped give artificial respiration.

SECTION VI REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

Sparks and open flame.

STABLE

X

INCOMPATIBILITY (Materials to avoid)

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Flush with copious quantities of water. Avoid sparks or open flame. Avoid flushing into confined areas. Wear respiratory protection.

WASTE DISPOSAL METHOD

Flush with water or controlled burning.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Emergencies - Organic canister or Air pack

VENTILATION

LOCAL EXHAUST

SPECIAL

MECHANICAL (General)

As required.

OTHER

PROTECTIVE GLOVES

Rubber

EYE PROTECTION

Goggles to prevent splashing in eyes.

OTHER PROTECTIVE EQUIPMENT

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Highly flammable. Prevent skin contact to avoid defatting action.

OTHER PRECAUTIONS

Use normal good personal hygiene.

NAME D. M. Sheets

TITLE Supervisor-Product Development-Resins

COMPANY Shell Chemical Company

SIGNATURE

D. M. Sheets

DATE October 1971

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PERSONS PROXIMATELY CAUSED BY THE MATERIAL IF REASONABLE SAFETY PROCEDURES ARE NOT ADHERED TO AS STIPULATED IN THE DATA SHEET. ADDITIONALLY, VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PERSONS PROXIMATELY CAUSED BY ABNORMAL USE OF THE MATERIAL EVEN IF REASONABLE SAFETY PROCEDURES ARE FOLLOWED. FURTHERMORE, VENDEE ASSUMES THE RISK IN HIS USE OF THE MATERIAL.

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HAZARDOUS WASTE GENERATOR
MANAGEMENT PLAN

A. Complete a separate Management Plan (Green form) for each hazardous waste identified in Items D.1. and D.2. of the Hazardous Waste Generator License Application Information (Blue form) and attach to the application.

B. Waste Identification and Evaluation:

1. Name of generator (from Items A.1. and A.2. of application form):

INTERPLASTIC CORPORATION COMMERCIAL RESINS DIVISION

2. Name, type of waste (identified in Items D.1. or D.2. of the Blue application information form): WASTE RESIN

3. Major constituents of waste. List all known components (whether hazardous or not) and approximate concentration greater than 1%. Attach any explanatory reports or data:

Component	Concentration (%) (range)	Component	Concentration (%) (range)
POLYESTER SOLIDS	69.3%		
STYRENE	30.7%		

4. Hazardous components of waste. List all known or suspected components of the waste or leachate of the waste which are listed in 6MCAR §4.9002 B.1 and 6MCAR §4.9002 B.2 respectively.

Component	Concentration (ppm) (range)	Component	Concentration (ppm) (range)
STYRENE	307,000		

5. Hazardous properties. Check one or more of the following hazardous properties found for this waste. Attach explanatory reports of data describing why this hazardous waste does or does not exhibit these hazardous properties. Experience with the waste, literature sources, or test data may be used.

- ☐ Toxic ☒ Irritative ☐ Petroleum Waste ☐ Other
☐ Corrosive ☐ Explosive ☐ Used Crankcase Oil
☒ Flammable ☐ Oxidative ☐ List 1 and/or 2 (6MCAR §4.9002)

6. Waste code (to be completed by County Solid Waste Officer):

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1. The hazardous waste management plan shall be for a period of twelve (12) months corresponding to the license year. See instructions.
2. Estimated amount of this waste to be produced during the management plan period (Item C.1. above): 4,000 (gallons)
3. Briefly describe how and where this waste will be stored prior to shipment and/or disposal or other ultimate disposition (use additional sheets if necessary):
IN 55 GALLON STEEL BARREL, IN OPEN YARD

4. What is the anticipated frequency of shipment of this waste:
TWO TIMES per (day, week, month, year) or (specify):

5. What is the anticipated quantity of each of the shipments of this waste:
2,000 (gallons, tons, yards) or other specify

6. Is this waste to be commingled with any other waste? ☐ Yes ☒ No

If commingling is planned, list the generator and waste with which this waste may be commingled.

Generator Name	Establishment No.	Waste	Waste Code

7. Transporter to be used (name and MPCA registration number):

Name	Registration Number
ROGERS PETROCHEM	TR 1979

8. Disposer, treatment, storage, and/or recovery facility, and method or process to be used (name and MPCA or other state permit number):

Name	Permit Number	Method/Process
WES CON	EPA SITE	DUMPED

9. Special procedures and/or instructions. Attach a description of:

- a. Equipment, labels, and procedures for safe handling of this waste; and
- b. Emergency procedures in case of a spill; and
- c. Additional information the generator deems important.

D. I certify that I am familiar with the information contained in this Management Plan and that, to the best of my knowledge and belief, such information is true, complete, and accurate. Included with this Management Plan are _____ attachments.

Maurice Weir
Signature of Applicant

Plant Manager
Title

6/12/80
Date

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EVALUATION DATA SHEET

1. Laboratory Name: MONSANTO Phone No.:

Address 800 N. LINDBERGH BLVD.

ST. LOUIS, MO. 63166

A. Report of Laboratory Analysis for (name of generator):

INTERPLASTIC CORPORATION

Sample I.D.: STYRENE

Date Sampled: SEE STYRENE MONOMER DATA SHEET

Date Received: _____

B. Parameters Listed in 6MCAR §4.9002 B.1-2 of MPCA Hazardous Waste Rules:

Parameter	Result	Precision	Source of Data

C. Sampling Location: _____

Sampling Procedure: _____

Sample Preservation Techniques: _____

D. Evaluation of Hazardous Properties

Property	Test	Result	Precision	Lab Analysis/Date
1. Toxic	oral LD ₅₀			
	dermal LD ₅₀			
	inhalation LC ₅₀			
	aquatic LC ₅₀			
2. Corrosive	rabbit			
	pH			
	skin damage			
	steel coupon			
3. Irritative	rabbit			
	skin damage			
4. Flammable	flash point			
5. Explosive	---			
6. Oxidative	---			

E. Literature or Experience - if other than laboratory analyses are submitted, provide supporting data.

E. Evaluation Submitted By: Monsanto

Title: _____

Date: _____

Styrene Monomer

Effective Date: 12/1/77

Product Code: 4008-001-76-019

General Information

Monsanto styrene monomer is an aromatic hydrocarbon with an aliphatic side chain supplied as a colorless liquid inhibited with TBC. It is widely used to make polystyrene plastics, copolymer resins, SBR synthetic rubber and latices, ion exchange resins, polyesters, and styrene-modified oils and alkyds for surface coatings.

Specifications/Properties

Color, Pt-Co	10 maximum (ASTM D-1209)
Purity, Wt. %	99.6 minimum (ASTM D-1016)
Polymer, ppm	15 maximum (ASTM D-2121)
Aldehydes, Wt. %	0.02 maximum (ASTM D-2119)
Peroxides, Wt. %	0.01 maximum (ASTM D-2340)
Sulfur, Wt. %	0.003 maximum (MTM 602.094)
Chlorides, Wt. %	0.01 maximum (MTM 602.094)
TBC Inhibitor, ppm	10-15* (ASTM D-2120)

*Available containing 45-55 ppm inhibitor upon request.

NOTE: Product specifications are subject to change from time to time without notice. Please write us for our current product specifications.

Shipping Information

FOB	Addyston, Ohio—trucks Bayonne, N.J.—trucks Lemont, Ill.—trucks, tankcars Long Beach, Calif.—trucks New Haven, Conn.—trucks Texas City, Texas—tankers, barges, trucks, tankcars
Freight Classification	STYRENE MONOMER, INHIBITED FLAMMABLE LIQUID (STYRENE LIQUID)
Shipping Weight	7.587 lbs/gal. @ 15.6°C. (60°F.)
Containers	Tankcars: General service, carbon steel. Capacities: 25, 20, 10K gal. Tanktrucks: 5,000 gal. typical; 6,500-gal. West, for minimum freight; 6,000-gal. East, for minimum freight. Tankers, Barges: 100 mt/h loading capability on 1,000 mt minimum
Samples	One quart.

Handling Precautions

Care should be taken to avoid contact with the eyes. In case of eye contact, flush immediately with large volumes of water. If irritation persists, consult a physician.

Repeated or prolonged skin contact with styrene monomer should be avoided. In case of skin contact, wash affected area thoroughly with soap and water.

Exposure to styrene monomer vapor concentrations should be avoided by handling this material only in a well-ventilated area or with adequate respiratory protection. Should exposure to concentrated vapors occur, remove afflicted person to fresh air and summon a physician immediately.

Handle in a manner consistent with good manufacturing and hygienic practices applicable generally to industrial chemicals.

Labeling Requirements

Product label plus DOT flammable liquid label required by law.

"Nothing contained herein is to be construed as a recommendation to use any product in conflict with any patent. MONSANTO MAKES NO WARRANTIES AS TO THE FITNESS OR MERCHANTABILITY OF ANY PRODUCTS REFERRED TO, no guarantee of satisfactory results from reliance upon contained information or recommendations, and disclaims all liability for any resulting loss or damage."

MONSANTO CHEMICAL INTERMEDIATES CO.
800 N. Lindbergh Blvd., St. Louis, Mo. 63166

Akron, Ohio 44313 • 260 Springside Drive
Chicago, Ill. • 3158 Des Plaines Ave., Des Plaines, Ill. 60018
Houston, Texas 77056 • 1300 Post Oak Tower, 5651 Westheimer Road
New York, N. Y. 10036 • 1114 Avenue of the Americas
San Francisco Bay Area • 2710 Lafayette, Santa Clara, Calif. 95052
Wilmington, Del. 19810 • 3411 Silverside Road

a unit of Monsanto Company

Monsanto



INTERPLASTIC CORPORATION

A SUBSIDIARY OF PHILLIPS PETROLEUM COMPANY

COMMERCIAL RESINS DIVISION

MINNEAPOLIS, MINNESOTA 55413
2015 N.E. BROADWAY

HAZARDOUS WASTE HANDLING PROCEDURE AND SAFETY REGULATIONS WASTE RESIN

USE WHITE DRUMS FOR WASTE RESIN. WHEN DRUM IS FILLED,
INSTALL BUNGS AND TIGHTEN.

ATTACH HAZARDOUS WASTE LABELS AND FILL IN DATE THAT
DRUM WAS FILLED. ALSO ATTACH FLAMMABLE LABEL.

USE STENCIL FOR HAZARDOUS WASTE ON SIDE AND TOP OF EACH
DRUM. FILL IN DATE WHEN DRUM IS FILLED WITH MARKING
PENCIL.

DO NOT STACK DRUMS MORE THAN TWO HIGH.

IN CASE OF SPILL, NOTIFY FOREMAN ON DUTY AND PLANT MANAGER.

IF STYRENE IS SPILLED, IT MAY BE ABSORBED BY DRY EARTH OR
EQUIVALENT THEN PUT IN METAL CONTAINERS.

EMERGENCY FIRST AID. MOVE PATIENT TO FRESH AIR AND REVIVE
IF UNCONSCIOUS. CALL PHYSICIAN IMMEDIATELY. INGESTION:
INDUCE VOMITING AT LEAST 3 TIMES WITH MILK AND RAW EGGS.
INHALATION: LIE DOWN AND KEEP WARM: O₂ RELIVES COUGHING.
EYE CONTACT: IRRIGATE 15 MINUTES WITH WATER. SKIN: WASH
THOROUGHLY WITH SOAP AND WATER.

FIRE EXTINGUISHERS ARE LOCATED IN SCALE HOUSE AND OUTSIDE
OF PUMP HOUSES. IN CASE OF FIRE, PULL FIRE ALARM SWITCH
ON NORTH END OF TANK FARM WALL.

MINNESOTA POLLUTION CONTROL AGENCY, 24 HOUR SPILL
NUMBER 296-7373.

EYE WASH AND SHOWER AVAILABLE IN KETTLE ROOM.

FOR FIRST AID, SEE FOREMAN IMMEDIATELY.

COMPANY DOCTOR PHONE NUMBER 789-3531.

METROPOLITAN MEDICAL CENTER INFORMATION 347-4444.

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HAZARDOUS WASTE GENERATOR
MANAGEMENT PLAN

A. Complete a separate Management Plan (Green form) for each hazardous waste identified in Items D.1. and D.2. of the Hazardous Waste Generator License Application Information (Blue form) and attach to the application.

B. Waste Identification and Evaluation:

1. Name of generator (from Items A.1. and A.2. of application form):

INTERPLASTIC

2. Name, type of waste (identified in Items D.1. or D.2. of the Blue application information form):

WASTE WATER DISCHARGED TO SEWER

3. Major constituents of waste. List all known components (whether hazardous or not) and approximate concentration greater than 1%. Attach any explanatory reports or data:

Component	Concentration (%) (range)	Component	Concentration (%) (range)
(NON HAZARDOUS)	SEE ATTACHED		
ANALYSES FROM SERCO LAB			

4. Hazardous components of waste. List all known or suspected components of the waste or leachate of the waste which are listed in 6MCAR §4.9002 B.1 and 6MCAR §4.9002 B.2 respectively.

Component	Concentration (ppm) (range)	Component	Concentration (ppm) (range)

5. Hazardous properties. Check one or more of the following hazardous properties found for this waste. Attach explanatory reports of data describing why this hazardous waste does or does not exhibit these hazardous properties. Experience with the waste, literature sources, or test data may be used.

- | | | | |
|------------------------------------|-------------------------------------|--|--------------------------------|
| <input type="checkbox"/> Toxic | <input type="checkbox"/> Irritative | <input type="checkbox"/> Petroleum Waste | <input type="checkbox"/> Other |
| <input type="checkbox"/> Corrosive | <input type="checkbox"/> Explosive | <input type="checkbox"/> Used Crankcase Oil | |
| <input type="checkbox"/> Flammable | <input type="checkbox"/> Oxidative | <input type="checkbox"/> List 1 and/or 2 (6MCAR §4.9002) | |

6. Waste code (to be completed by County Solid Waste Officer):

--	--	--	--	--	--	--	--

C. Hazardous Waste Management.

1. The hazardous waste management plan shall be for a period of twelve (12) months corresponding to the license year. See instructions.
2. Estimated amount of this waste to be produced during the management plan period (Item C.1. above): _____ (gallons)
3. Briefly describe how and where this waste will be stored prior to shipment and/or disposal or other ultimate disposition (use additional sheets if necessary):

4. What is the anticipated frequency of shipment of this waste:
_____ per (day, week, month, year) or (specify): _____

5. What is the anticipated quantity of each of the shipments of this waste:
_____ (gallons, tons, yards) or other specify

6. Is this waste to be commingled with any other waste? ☐ Yes ☐ No

If commingling is planned, list the generator and waste with which this waste may be commingled.

Generator Name	Establishment No.	Waste	Waste Code

7. Transporter to be used (name and MPCA registration number):

Name	Registration Number

8. Disposer, treatment, storage, and/or recovery facility, and method or process to be used (name and MPCA or other state permit number):

Name	Permit Number	Method/Process

9. Special procedures and/or instructions. Attach a description of:

- a. Equipment, labels, and procedures for safe handling of this waste; and
- b. Emergency procedures in case of a spill; and
- c. Additional information the generator deems important.

D. I certify that I am familiar with the information contained in this Management Plan and that, to the best of my knowledge and belief, such information is true, complete, and accurate. Included with this Management Plan are _____ attachments.

Mary Weiss
Signature of Applicant

Plant Manager
Title

6/12/80
Date



SANITARY ENGINEERING LABORATORIES, INC.
2982 N. Cleveland Ave. Roseville, Mn. 55113 (612) 636-7173

ELY • ROSEVILLE, MN
PERU, ILLINOIS

GERALD ALLEN, P.E.
LAWRENCE BREIMHURST, P.E.

June 4, 1980

Interplastic Corporation
2015 N.E. Broadway
Minneapolis, MN 55411
Mr. Marv Weiss
Mr. Roman Kramer

CLIENT NO : 0167

Dear Sir,

Enclosed please find laboratory report number 914 for samples received May 11, 1980. This report, consisting of 2 pages, is considered incomplete unless accompanied by this cover letter.

The laboratory analyses herein reported have been performed by myself or under my direct supervision and in accordance with EPA approved methodologies.

Submitted by,

SERCO LABORATORIES

Daryle Thingvold
E.F.

Daryle Thingvold, Ph.D.
Technical Director



PROVIDING A SANITARY ENGINEERING RESEARCH AND LABORATORY SERVICE TO
INDUSTRY, MUNICIPALITIES AND CONSULTING ENGINEERS



SANITARY ENGINEERING LABORATORIES, INC.
25 N. Cleveland Ave. Roseville, Mn. 55113 (612) 875-7173



REPORT OF LABORATORY ANALYSIS
(Methodologies EPA approved)

REPORT NO: 914
06/04/80

PAGE 2 OF 2

CLIENT: Interplastic Corporation
DATE COLLECTED:
DATE RECEIVED: 05/11/80
SAMPLE DESCRIPTION: HAZARDOUS WASTE

COLLECTED BY: CLIENT
PICKED-UP BY: CLIENT

LAB NO: 2439
SAMPLE SITE: HAZARDOUS
WASTE

ANALYSIS:

Total Dissolved Solids, mg/L	308
Total Solids, mg/L	404
Total Chromium, mg/L as Cr	<0.05
Nickel, mg/L as Ni	<0.05
Cadmium, mg/L as Cd	<0.01
Lead, mg/L as Pb	<0.1
Manganese, mg/L as Mn	9.3
Arsenic, mg/L as As	<0.5
Beryllium, mg/L as Be	<0.02
Potassium, mg/L as K	18
pH	6.5

Approved by: E.F. < means "less than"

TOXICITY INFORMATION ON: _____

STYRENE MONOMER

TOXICITY

The rat acute oral LD₅₀ of undiluted styrene monomer is 4.37 grams/kilogram. When undiluted styrene monomer was held in continuous 24-hour contact with rabbit skin, the dermal LD₅₀ was estimated to be greater than 5.01 grams/kilogram. Thus, styrene monomer is considered to be slightly toxic by ingestion in single doses and by single dermal applications.

When 0.1 milliliter of undiluted styrene monomer was placed into the conjunctival sac of the rabbit eye, a slight degree of irritation resulted. The average score of the 24-, 48- and 72-hour readings was 10.3 on a scale of 110.0. All eyes had regained a normal appearance 120 hours after they were dosed.

A mild degree of irritation resulted when 0.5 milliliter styrene monomer was held in continuous 24-hour contact with intact and abraded rabbit skin. The Primary Irritation Index was 2.4 on a scale of 8.0.

A styrene monomer, at ambient temperature, is capable of producing vapor concentrations which could be lethal. Two of six rats exposed to an atmosphere containing 14.0 milligrams/liter styrene monomer vapor died within 6 hours from the beginning of the exposure. Two additional rats died 4 to 6 days after exposure.

HANDLING PRECAUTIONS

Care should be taken to avoid contact with the eyes. In case of eye contact, flush immediately with large volumes of water. If irritation persists, consult a physician.

Repeated or prolonged skin contact with styrene monomer should be avoided. In case of skin contact, wash affected area thoroughly with soap and water.

Exposure to styrene monomer vapor concentrations should be avoided by handling this material only in a well-ventilated area or with adequate respiratory protection. Should exposure to concentrated vapors occur, remove afflicted person to fresh air and summon a physician immediately.

Styrene monomer appears to possess no other acute toxicologic properties which would require special handling other than the good hygienic practices employed with any industrial chemical.

1/12/77
Y-76-322

The above information is based upon studies conducted for Monsanto Company. It is believed to be correct, and it is supplied to others upon the condition that the persons receiving it shall make their own determination of its suitability for their purposes. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use.

Inquiries regarding this information are to be referred to the Department of Medicine & Environmental Health, 800 N. Lindbergh, St. Louis, Mo. 63166, (314) 694-1000.

U.S. DEPARTMENT OF LABOR

WORKPLACE STANDARDS ADMINISTRATION

Bureau of Labor Standards

MATERIAL SAFETY DATA SHEET

SECTION I	
MANUFACTURER'S NAME Monsanto Company	EMERGENCY TELEPHONE NO. Texas City, 713-945-4431
ADDRESS (Number, Street, City, State, and ZIP Code) 800 North Lindbergh Boulevard, St. Louis, Missouri 63166	
CHEMICAL NAME AND SYNONYMS Styrene, Vinyl Benzene	TRADE NAME AND SYNONYMS Styrene Monomer, SM
CHEMICAL FAMILY Aromatic Hydrocarbon	FORMULA $C_6H_5CHCH_2$

SECTION II HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III PHYSICAL DATA			
BOILING POINT (°F.)	293	SPECIFIC GRAVITY ($H_2O = 1$) 77°F(25°C)	.902
VAPOR PRESSURE (mm Hg.) 68°F(20°C)	4.5	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR = 1)	3.6	EVAPORATION RATE (Ether = 1)	<1
SOLUBILITY IN WATER 68°F(20°C)	.029%		
APPEARANCE AND ODOR Colorless liquid with aromatic odor. Becomes irritating above 400 ppm.			

SECTION IV FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used) Tag, closed cup 88°F (31°C); Tag, open cup 98°F(37°C).	FLAMMABLE LIMITS Vol. %	LEL	UEL
		1.1	6.1
EXTINGUISHING MEDIA Dry Chemical, Water Fog, Foam or CO ₂			
SPECIAL FIRE FIGHTING PROCEDURES Equipment which handles or contains styrene monomer should be cooled by water stream if exposed to fire.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None.			

3/13/72

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 100 ppm

EFFECTS OF OVEREXPOSURE Irritation to eyes and respiratory tract normally provides good warning above 400ppm and systemic injury unlikely unless concentration extremely high (1% can be fatal in 30-60 min.)

EMERGENCY AND FIRST AID PROCEDURES Move patient to fresh air and revive if unconscious. Call physician immediately. Ingestion: Induce vomiting at least three times with milk and raw eggs. Inhalation: Lie down and keep warm; O₂ relieves coughing. Eye Contact: Irrigate 15 min. with water. Skin: Wash thoroughly with soap and water.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATIBILITY (Materials to avoid) Alkylation Catalysts (H₂SO₄, H₃PO₄, BF₃, AlCl₃), Halogens, Hydrogen Halides, NaOH, Glycols (Removes Inhibitor).

HAZARDOUS DECOMPOSITION PRODUCTS

Acrid fumes on heating.

HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID
	WILL NOT OCCUR		Excessive heat will deplete inhibitor (runaway polymerization usually requires >150° F)

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED All spills and leaks should be immediately flushed to waste treatment facilities with large amounts of water. If water is not available, styrene monomer may be absorbed by dry earth or equivalent and hauled to a disposal area.

WASTE DISPOSAL METHOD All quantities of styrene monomer or waste contaminated by styrene should be safely burned in a manner consistent with federal, state and local health and pollution regulations. Water containing styrene should be air blown and the air burned if contamination is gross.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Bureau of Mines approved industrial canister gas masks up to 2%. Air or O₂ supplied full face masks above 2%.

VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER Good natural ventilation normally sufficient.

PROTECTIVE GLOVES Rubber or insoluble plastic. EYE PROTECTION Chemical safety goggles if eye contact possible.

OTHER PROTECTIVE EQUIPMENT Rubber boots and slicker suit if splashing likely.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING For storage temp. below 70°F, check inhibitor and polymer content weekly. If above 70°F, check daily or as experience indicates. Maintain TBC inhibitor above 10 ppm. Keep vents and flame arrestors polymer free. Do not use copper or copper alloys in styrene service. Rubber hose ~~not recommended for styrene transfer.~~ Other precautions: Avoid skin and eye contact; avoid inhalation of vapors; avoid ingestion.

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, MONSANTO COMPANY MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

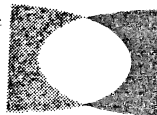


Bill Sofko
Vice President

INTERPLASTIC
CORPORATION

(612) 331-6850

2015 N.E. Broadway
Minneapolis, MN 55413-1775



Robert C. Hoffman
Plant Manager

INTERPLASTIC
CORPORATION

(612) 331-6850

2015 N.E. Broadway
Minneapolis, MN 55413-1775